NOV 1 2 2009



CERTIFICATE OF MAILING UNDER 37 C.F.R 1.8(a)

Thereby certify that this paper (along with any paper referred to as being attached hereto or transmitted herewith) is being deposited with the United States Postal Service as first class mail in an envelope addressed: Attn.: Certificate of Correction Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: 11 / 9 / 2009

Christing Kotran

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors:

Heinz Berner and Gabriele Kerber

Patent No.:

7,612,103

Issued:

Nov. 3, 2009

Serial No.:

10/521,926

Filed:

July 22, 2005

Title:

PLEUROMUTILIN DERIVATIVES AS ANTIMICROBIALS

Attorney File:

KS4258US.RCE (#90711)

Certificate

ATTN: Certificate of Correction Branch

NOV 1 6 2009

Commissioner for Patents

P.O. Box 1450

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of Correction

REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 C.F.R. 1.322

Sir:

A printing error has occurred in the above-referenced U.S. Patent No. 7,612,103 issued November 3, 2009. Specifically, on the cover page at item (30), Foreign Application Priority Data, please delete "PCT/EP03/08059" and insert -- PCT/EP03/03215--. A Certificate of Correction form PTO/SB/44 is enclosed along with a copy of the cover sheet with the correction marked thereon.

The following documents are also enclosed to support this correction:

A. Declaration and Power of Attorney for United States Patent Application - (note particularly page 2), which was filed at the USPTO on July 22, 2005 (note also postcard receipt marked A1), and

B. Cover page of WO 2004/011431 published 5 February 2004 (This is the publication document for PCT/EP03/08059 from which the referenced patent application was filed at the USPTO under 35 U.S.C. 371 and 37 C.F.R. 1.495.).

As this is a printing error on the part of the USPTO, no fee is required. Prompt issuance of a Certificate of Correction is earnestly solicited.

Respectfully submitted,

y: D. Peter Hochberg

Reg. No. 24,602

DPH/ck Enc.

D. Peter Hochberg Co., L.P.A. 1940 E. 6th Street - 6TH Floor Cleveland, Ohio 44114

Phone: (216) 771-3800 / Fax: (216) 771-3804 e-mail: dphdocket@dpeterhochberg.com

PTO/SB/44 (09-07)
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UNITED STATES PATENT AND TRADEMARK OFFICE

		CERTIFICATE OF CORRECTION	
PATENT NO.		7,612,103	Page <u>1</u> of <u>1</u>
APPLICATION N	10.:	10/521,926	
ISSUE DATE	:	Nov. 3, 2009	
INVENTOR(S)	;	Heinz Berner and Gabriele Kerber	
It is certi is hereby corr	fied	that an error appears or errors appear in the above-identified patent and ed as shown below:	that said Letters Patent
On the cover "PCT/EP03/0	sh 080:	eet, first column at item (30) Foreign Application Priority Data, at the third 59" and insert PCT/EP03/03215	d item delete
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MAILING ADDRESS OF SENDER (Please do not use customer number below):

D. Peter Hochberg, Esq. 1940 East 6th Street - 6th Floor Cleveland, OH 44114

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



US007612103B2

(12) United States Patent

Berner et al.

(10) Patent No.:

US 7,612,103 B2

(45) Date of Patent:

Nov. 3, 2009

(54) PLEUROMUTILIN DERIVATIVES AS ANTIMICROBIALS

(75) Inventors: Heinz Berner, Vienna (AT); Gabriele Kerber, Vienna (AT)

(73) Assignee: Nabriva Therapeutics AG, Vienna (AT)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 612 days.

(21) Appl. No.:

10/521,926

(22) PCT Filed:

Jul. 23, 2003

(86) PCT No.:

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§ 371 (c)(1),

(2), (4) Date:

Jul. 22, 2005

(87) PCT Pub. No.: WO2004/011431

PCT Pub. Date: Feb. 5, 2004

(65)

Prior Publication Data

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(30) Foreign Application Priority Data

Jul. 24, 2002	(GB)	0217149.4
Jul. 25, 2002		0217305.2
		PCT/EP03/08059

(51) Int. Cl.

A61K 35/31 (2006.01) Should read:

A31K 35/27 (2006.01)

 $\begin{array}{cccc} A31K & 33/2/ & (2006.01) \\ C07D & 211/80 & (2006.01) \end{array}$

(56) References Cited

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* cited by examiner

Primary Examiner—Janet L. Andres
Assistant Examiner—Raymond Covington

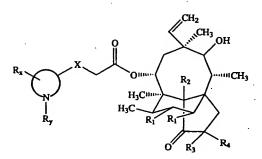
(74) Attorney, Agent, or Firm—D. Peter Hochberg; Sean F. Mellino; Daniel J. Smola

.................

(57)

ABSTRACT

Compounds of formula



wherein

 R_1 and R_1 ' are hydrogen or deuterium, R_2 , R_3 and R_4 are hydrogen or deuterium, R_5 is the residue of an amino acid, X is S or N-ALK,

PCT/EP03/03215



is piperidinyl or tetrahydropyridinyl, ALK is (C_{1-4}) alkyl, and R_6 is hydrogen, hydroxy or (C_{2-12}) acyloxy, and their use as antimicrobials.

8 Claims, No Drawings



CLARATION AND POWER OF ATTORNEY FOR UNITED STATES PATENT APPLICATION

	Original	Ц	Supplemental	- Substitute
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	below named inventor, I herel	•		
My r	esidence, post office address a	and c	itizenship are as stated below next to	my name, and
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I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) specifically referred to above and, if this application was filed as a Patent Cooperation Treaty international application, by any amendments made during the international stage (including any made under Patent Cooperation Treaty Rule 91, Article 19 and Article 34).

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	COUNTRY/REGION (OR P.C.T.)	APPLICATION No.	FILING DATE (day/month/year)	F	PRIORI	TY CLAI	MED
_	Great Britain	0217149.4	24/07/2002	X	Yes		No
}	Great Britain	0217305.2	25/07/2002	X	Yes		No 🕻
	PCT (EP)	PCT/EP03/03215	27/03/2003	X	Yes		No
-	Great Britain	0207495.3	28/03/2002		Yes	(X)	No
					Yes		No.

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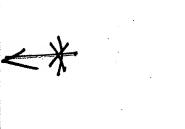
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			•
Full name of sole or first joint inventor	Heinz BERNER		
Inventor's signature	Their Am	Date	10 . 1 . 2 60 5 (day/month/year)
Residence	1180 Wien, Austria		·
Citizenship	Austria		· .
Post Office Address	Geyergasse 2a 1180 Wien Austria		
Full name of second joint inventor, if any	Gabriele KERBER		
Inventor's signature	abrieletobe	Date	10.1.2005 (day/month/year)
Residence	1230 Wien, Austria		
Citizenship	Austria		
Post Office Address	Endemanngasse 13/1/1 1230 Wien Austria		

IMPORTANT: Before this declaration is signed, the patent application (the specification, the claims and this declaration) must be read and understood by each person signing it, and no changes may be made in the application after this declaration has been signed.

Case No. 18/6-32577A
Application No. 10/521, 926
Mailing Date: July 22,2005
Due Date: JCO4 Rec'd PCT/PTO 22 JUL 2005
Express Mail No.: EV724 61562605
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Initials 82972/99A Rev.1





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(43) International Publication Date 5 February 2004 (05.02.2004)

(10) International Publication Number WO 2004/011431 A1

C07D 211/54, (51) International Patent Classification7: 211/56, 211/58, 401/06, A61K 31/445, 31/45, A61P 31/04 Gabriele [AT/AT]; Endemanngasse 13/1/1, A-1230 Wien (AT).

(21) International Application Number:

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(74) Agent: GRUBB, Philip; Novartis AG, Corporate Intellectual Property, CH-4002 Basel (CH).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,

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HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU, LV, MA, MD, MK, MN, MX, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SE, SG, SK, SY, TJ, TM,

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(84) Designated States (regional): Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

TN, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZW.

(71) Applicant (for all designated States except US): SANDOZ GMBH [AT/AT]; Biochemiestrasse 10, A-6250 Kundl (AT).

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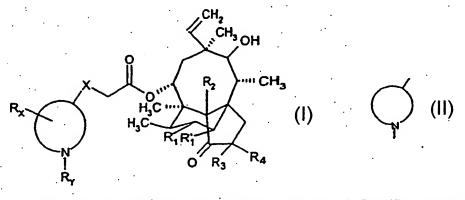
(72) Inventors; and

(75) Inventors/Applicants (for US only): BERNER, Heinz [AT/AT]; Geyergasse 2a, A-1180 Wien (AT). KERBER,

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(54) Title: PLEUROMUTILIN DERIVATIVES AS ANTIMICROBBIALS



(57) Abstract: Compounds of formula (I), wherein R₁ and R₁' are hydrogen or deuterium, R₂, R₃ and R₄ are hydrogen or deuterium, R_5 is the residue of an amino acid, X is S or N-ALK, formula (II), is piperidinyl or tetrahydropyridinyl, ALK is (C_{1-4}) alkyl, and R_6 is hydrogen, hydroxy or (C2-12)acyloxy, and their use as antimicrobials.

